

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS PO Box 1450 Alexascins, Virginia 22313-1450 www.emplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/527,272	03/08/2005	Si Han Kim	K50.12-0001	2326
22367 YESTMAN CHAMPLIN & KELLY, P.A. SUITE 1400 900 SECOND AVENUE SOUTH MINNEAPOLIS, MN 55402-3244			EXAMINER	
			ABDIN, SHAHEDA A	
			ART UNIT	PAPER NUMBER
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			2629	
			MAIL DATE	DELIVERY MODE
			09/05/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/527,272 KIM, SI HAN Office Action Summary Art Unit Examiner SHAHEDA A. ABDIN 2629 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 28 June 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 9-13.15-17 and 21-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 9-13.15-17 and 21-24 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 08 March 2005 is/are: a) ☐ accepted or b) ☑ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date _

Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Information Disclosure Statement(s) (PTO/SB/08)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

Application/Control Number: 10/527,272 Page 2

Art Unit: 2629

DETAILED ACTION

 The amendment field on 06/03/2008 has been entered and considered by Examiner. In accordance with the amendment claims 9-13, 15-17 and 21-24 has been elected with traverse.

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which
papers have been placed of record in the file.

Drawings

3. The drawings are objected to because Fig. 1 does not label the rectangular boxes as required by rule 1.83. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filling date of an application must be labeled in the top margin as either

Application/Control Number: 10/527,272 Page 3

Art Unit: 2629

"Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abevance.

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treatly in the English language.
- Claims 21-22 are rejected under 35 U.S.C. 102(e) as being anticipated by Wilk et al. (US Patent No: 6643124 B1).
 - (1) Regarding claim 21:

Wilk teaches a multi display device (in Fig. 6 and 12-14) comprising:

at least two panel housings (i.e. housing for panels 124, 122 in Fig. 13) with displays (e.g. 138 and 136), the panel housings being foldable on each other (se the illustration in fig. 12, the housing of panels 122 and 124 are foldable), at least one side of the displays being disposed adjacent to each other when the panel housings are unfolded (column 7, lines 45-67, and Fig. 12-14);

a key input part (e.g key input part 130); and

a connection joint portion (i.e. side mounted portion 128) formed on a sidewall of the panel housing (i.e. 122) to which the displays adjacent (see Fig. 12and column 7, lines 45-67) or an adjacent portion of a frame to which the displays adjacent so as to dispose the displays to be adjacent to each other.

(2) Regarding claim 22:

Wilk teaches (in Fig 18) connection joint portion is opened (i.e. side mounted portion 188 is opened for extpanding the display 194).

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this tille, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skil in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wilk.

Application/Control Number: 10/527,272

Art Unit: 2629

Regarding claim 23:

Regarding claim 23, although "Wilk" doesn't specifically disclose * a thickness of the connection joint portion is less than 0.5 mm*, such limitation are merely a matter of design choice and would have been obvious in the system of "wilk". since the invention as a whole and "Wilk" are directed to an expanding part (i.e. 194) provided on the key input part of phone 180, the expanding part (i.e. 194) being coupled to the small Joint portion of the housing for display 184 (see column 2, lines 9-17, Fig. 18, column 8, lines 59-67, and column 9, lines 1-9, also see Fig. 6).

Therefore, a thickness of the connection joint portion is less than 0.5 mm "Wilk" would have been a matter of obvious design choice to one of ordinary skill in the art. In this configuration the system would provide a easy to operate and compact electronic device with multiple display (Wilk, column 2, lines 9-18).

 Claim 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wilk in view of Miyashita (US Patent No: 6327482 B1).

Regarding claim 24:

Note that Wilk in Fig. 15 discloses a side wall (i.e. 143) of the panel housings (144 and 142) where the displays are adjacent to each other but Wilk does not disclose that the side wall is cut away to defining a cutting portion.

However, Miyashita in the same field of endeavor discloses that the side wall is cut away to defining a cutting portion (i.e. 9d, Fig. 4A-4B).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of invention to incorporate a side wall as taught by Miyashita in to the display system of Wilk so that the display system could have a side wall which is cut away to defining a cutting portion and the displays could be mounted on the upper end of the cutting portion. In this configuration the system would have a compact and easy to read with accurate data transmission display device (Miyashita, column 1, lines 35-45).

 Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wilk in view of Tsugane et al. (US Patent No: 5657370).

(1) Regarding claim 9:

Note that Wilk teaches at least two panel housings (i.e. e.g. housing of panel 144 and142) with displays (i.e. 158 and 156), the panel housings being foldable on each other (see Fig. 13 and 14 that panel housings are foldable by the hinges 141 and 143), at least one side of the displays (158 and 138) being disposed adjacent to each other when the panel housings are unfolded (see the illustration on Fig. 15) (column 8, lines 1-40); but Wilk does not teach that a key input part insert able into a lower portion by a sliding motion.

However, Tsugane in the same field of endeavor teaches a key input part (i.e. 2) insert able into a lower portion (i.e. lower portion of element 1) by a sliding motion (see Fig. 9B, column 5, lines 42-52).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of invention to incorporate a key input part insert able into a lower by a sliding motion as taught by Miyashita in to the display system of Wilk so that a key input part could be insertable into a lower portion of the panel housings by a sliding motion. In this configuration the system would provide a number of state where telephone communication is possible and can be increased, thereby improving the convenience for the user (Tsugane, column 3, lines 1-9).

(2) Regarding claim 10:

Note that Tsugane teaches the sliding motion of the key input part (i.e. 2) and Wilk teaches folding/unfolding operation of the panel housings. Therefore it would have been obvious that the sliding motion of the key input part being synchronized with a folding/unfolding operation of the panel housings.

(3) Regarding claim 11:

Wilk teaches a sub-display (i.e. 154) formed on an outer surface of the panel housings (i.e. 142) (column 8, lines 10-20).

(4) Regarding claim 12:

Art Unit: 2629

Note that Tsugane teaches wherein the key input part slides out and Wilk teaches the panel housings (i.e. 144 and 142) are unfolded from each other (see Fig. 14). Thus the references meet the claim limitations.

(5) Regarding claim 13:

Wilk teaches an expanding part (i.e. 194) separately coupled on the key input part (i.e. key pad of the phone) (column 8. lines 59-67).

(6) Regarding claim 15:

Wilk teaches the panel housing (i.e. 76, 72 and 78) are detachable coupled to each other (which is slidably couple to each other), and when the panel housings are coupled to each other, at least one side of the displays are disposed adjacent to each other (see Fig. 6).

(7) Regarding claim 16:

Note that Wilk teaches panel housing and Tsugane teaches a support (i.e. 7) for enhancing supporting force between the key input part (i.e. 2)) and the panel housing (1) when the key input part slides out of the panel housings. Thus the limitations meet the claim limitations.

(8) Regarding claim 17:

Tsugane teaches the support (i.e. 7) is designed slide between the panel housing (i.e. 1) (Fig. 9B) and the key input part or designed in more than two steps so

Art Unit: 2629

that they can be overlapped and Wilk teaches the panel housing. Thus the references meet the claim limitations

Conclusion

12 The prior art made of record and not relied upon is considered pertinent to applicant's discloser.

Leman (US 2001/0054986 A1) discloses a pen-based split computer display.

Inquiry

 Any inquiry concerning this communication or earlier communication from the examiner should be directed to Shaheda Abdin whose telephone number is (571) 270-1673.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Richard HJerpe** could be reached at (571) 272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about PAIR system, see http://pari-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business

Application/Control Number: 10/527,272 Art Unit: 2629	Page 10
Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a US	SPTO
Customer Service Representative or access to the automated information syste	m, call
800-786-9199 (IN USA OR CANADA) or 571-272-1000.	
Shaheda Abdin 08/28/2008	
/Richard Hjerpe/	

Supervisory Patent Examiner, Art Unit 2629